

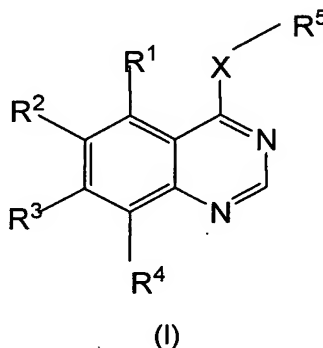
Application No.	10/088,856
Final Office Action dated	December 30, 2004
Advisory Action dated	May 5, 2005
Reply to Office Action of	July 27, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

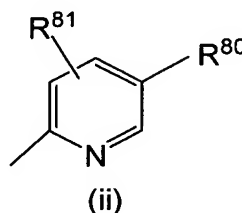
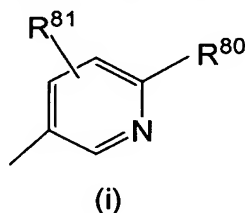
1. (Currently Amended) A compound of formula (I)



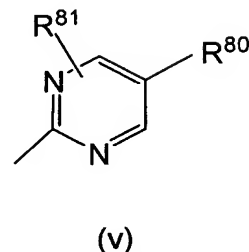
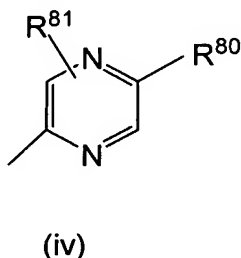
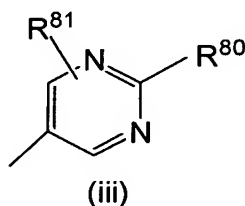
or a salt, ~~ester, amide or prodrug thereof;~~

where X is O, or S, S(O), S(O)₂ or NR⁶ where R⁶ is hydrogen or C₁₋₆alkyl;

R⁵ is a group of sub-formula ~~sub-formulae~~ (i) or (ii)



or a group of sub-formula (iii), (iv) or (v)



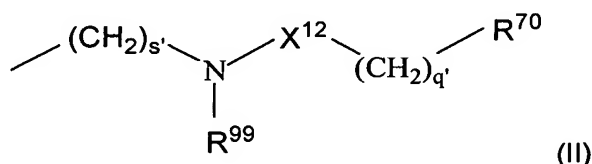
where R⁸⁰ is a substituent selected from ~~of at least 4 atoms comprising one or more of:~~

~~1) halo, C₁₋₄alkyl, optionally substituted C₁₋₆alkoxy, C₁₋₄alkoxymethyl, di(C₁₋₄alkoxy)methyl, C₄₋₄alkanoyl, carboxy, benzoyl, trifluoromethyl, cyano, amino, C₂₋₅alkenyl, C₂₋₅alkynyl, a phenyl group, a benzyl group or a 5-6 membered heterocyclic group with 1-3 heteroatoms, selected independently from O, S and N, which heterocyclic group may be aromatic or non-aromatic and may be saturated (linked via a ring carbon or nitrogen atom) or unsaturated (linked via a ring~~

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carbon atom), and which phenyl, benzyl or heterocyclic group may bear on one or more ring carbon atoms up to 5 substituents selected from hydroxy, halogeno, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkanoyloxy, trifluoromethyl, cyano, amino, nitro, C₂₋₄alkanoyl, C₁₋₄alkanoylamino, C₁₋₄alkoxycarbonyl, C₁₋₄alkylsulphanyl, C₁₋₄alkylsulphinyl, C₁₋₄alkylsulphonyl, carbamoyl, N-C₁₋₄alkylcarbamoyl, N,N-di(C₁₋₄alkyl)carbamoyl, aminosulphonyl, N-C₁₋₄alkylaminosulphonyl, N,N-di(C₁₋₄alkyl)aminosulphonyl, C₁₋₄alkylsulphonylamino, and a saturated heterocyclic group selected from morpholine, thiomorpholino, pyrrolidinyl, piperazinyl, piperidinyl, imidazolidinyl and pyrazolidinyl, which saturated heterocyclic group may bear 1 or 2 substituents selected from exo, hydroxy, halogeno, C₁₋₃alkyl, C₁₋₃alkoxy, C₁₋₃alkanoyloxy, trifluoromethyl, cyano, amino, nitro and C₁₋₄alkoxycarbonyl;

21) a group of sub-formula (II)



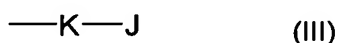
where q' is 0, 1, 2, 3 or 4;

s' is 0 or 1;

X¹² is C(O) or S(O₂),

R⁷⁰ is hydrogen, hydroxy, C₁₋₆alkyl, C₁₋₆alkoxy, amino, N-C₁₋₆alkylamino, N,N-(C₁₋₆alkyl)₂amino, hydroxyC₂₋₆alkoxy, C₁₋₆alkoxyC₂₋₆alkoxy, aminoC₂₋₆alkoxy, N-C₁₋₆alkylaminoC₂₋₆alkoxy, N,N-(C₁₋₆alkyl)₂aminoC₂₋₆alkoxy or C₃₋₇cycloalkyl,

or R⁷⁰ is of the Formula (III):

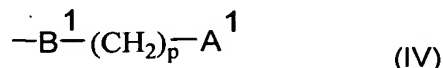


wherein J is aryl, heteroaryl or heterocyclyl and K is a bond, oxy, imino, N-(C₁₋₆alkyl)imino, oxyC₁₋₆alkylene, iminoC₁₋₆alkylene, N-(C₁₋₆alkyl)iminoC₁₋₆alkylene, -NHC(O)-, -SO₂NH-, -NHSO₂- or -NHC(O)-C₁₋₆alkylene-,

and any aryl, heteroaryl or heterocyclyl group in a R⁷⁰ group ~~is may be~~ optionally substituted by one or more groups selected from hydroxy, oxo, halo, trifluoromethyl, cyano, mercapto, nitro, amino, carboxy, carbamoyl, formyl, sulphamoyl, C₁₋₆alkyl, C₂₋₆alkenyl, C₂₋₆alkynyl, C₁₋₆alkoxy, -O-(C₁₋₃alkyl)-O-, C₁₋₆alkylS(O)_n- (wherein n is 0-2), N-C₁₋₆alkylamino, N,N-(C₁₋₆alkyl)₂amino, C₁₋₆alkoxycarbonyl, N-C₁₋₆alkylcarbamoyl, N,N-(C₁₋₆alkyl)₂carbamoyl, C₂₋₆alkanoyl, C₁₋₆alkanoyloxy, C₁₋₆alkanoylamino, N-C₁₋₆alkylsulphamoyl, N,N-(C₁₋₆alkyl)₂sulphamoyl, C₁₋₆alkylsulphonylamino and C₁₋₆alkylsulphonyl-N-(C₁₋₆alkyl)amino,

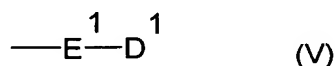
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or any aryl, heteroaryl or heterocyclyl group in a R⁷⁰ group ~~is may be~~ optionally substituted with one or more groups of the Formula (IV):



wherein A¹ is halo, hydroxy, C₁₋₆alkoxy, cyano, amino, N-C₁₋₆alkylamino, N,N-(C₁₋₆alkyl)₂amino, carboxy, C₁₋₆alkoxycarbonyl, carbamoyl, N-C₁₋₆alkylcarbamoyl or N,N-(C₁₋₆alkyl)₂carbamoyl, p is 1 - 6, and B¹ is a bond, oxy, imino, N-(C₁₋₆alkyl)imino or -NHC(O)-, with the proviso that p is 2 or more unless B¹ is a bond or -NHC(O)-;

or any aryl, heteroaryl or heterocyclyl group in a R⁷⁰ group ~~is may be~~ optionally substituted with one or more groups of the Formula (V):



wherein D¹ is aryl, heteroaryl or heterocyclyl and E¹ is a bond, C₁₋₆alkylene, oxyC₁₋₆alkylene, oxy, imino, N-(C₁₋₆alkyl)imino, iminoC₁₋₆alkylene, N-(C₁₋₆alkyl)-iminoC₁₋₆alkylene,

C₁₋₆alkylene-oxyC₁₋₆alkylene, C₁₋₆alkylene-iminoC₁₋₆alkylene,

C₁₋₆alkylene-N-(C₁₋₆alkyl)-iminoC₁₋₆alkylene, -NHC(O)-, -NH₂SO₂-, -SO₂NH- or

-NHC(O)-C₁₋₆alkylene-, and any aryl, heteroaryl or heterocyclyl group in a substituent on R⁵

~~is may be~~ optionally substituted with one or more groups selected from hydroxy, halo, C₁₋₆alkyl, C₁₋₆alkoxy, carboxy, C₁₋₆alkoxycarbonyl, carbamoyl, N-C₁₋₆alkylcarbamoyl,

N-(C₁₋₆alkyl)₂carbamoyl, C₂₋₆alkanoyl, amino, N-C₁₋₆alkylamino and N,N-(C₁₋₆alkyl)₂amino,

and any C₃₋₇cycloalkyl or heterocyclyl group in a R⁷⁰ group ~~is may be~~ optionally substituted with one or two oxo or thioxo substituents,

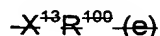
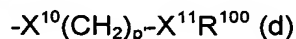
and any of the R⁷⁰ groups defined hereinbefore which comprises a CH₂ group which is attached to 2 carbon atoms or a CH₃ group which is attached to a carbon atom may optionally bear on each said CH₂ or CH₃ group a substituent selected from hydroxy, amino, C₁₋₆alkoxy,

N-C₁₋₆alkylamino, N,N-(C₁₋₆alkyl)₂amino and heterocyclyl;

or R⁷⁰ may be cycloalkenyl or alkenyl optionally substituted by aryl;

and R⁹⁹ is hydrogen or a group C(O)R⁷⁰ where R⁷⁰ is as defined above;

23) a group of sub-formula (d) or (e)



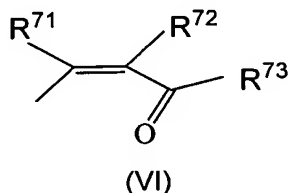
where p' is 1-3, X¹⁰ and X¹¹ are independently selected from a bond, -O-, -S- or NR¹⁰¹- where

R¹⁰¹ is hydrogen or a C₁₋₃alkyl, provided that one of X¹⁰ or X¹¹ is a bond; ~~X¹³ is O-, S- or NR¹⁰²-~~

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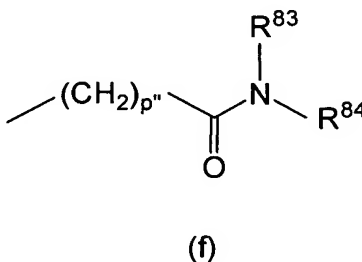
where ~~R¹⁰² is hydrogen or a C₁₋₃alkyl~~ and R¹⁰⁰ is hydrogen or optionally substituted hydrocarbyl or optionally substituted heterocyclyl, wherein any optional substituents are~~may be~~ functional groups;

3) [[4]] a group of formula (VI)



where R⁷¹ and R⁷² are independently selected from hydrogen or C₁₋₄alkyl, or R⁷¹ and R⁷² together form a bond, and R⁷³ is a group OR⁷⁴, NR⁷⁵R⁷⁶ where R⁷⁴, R⁷⁵ and R⁷⁶ are independently selected from optionally substituted hydrocarbyl or optionally substituted heterocyclic groups, and R⁷⁵ and R⁷⁶ may additionally form together with the nitrogen atom to which they are attached, an aromatic or non-aromatic heterocyclic ring which may contain further heteroatoms, wherein suitable optional substituents for hydrocarbyl or heterocyclic groups R⁷⁴, R⁷⁵ and R⁷⁶ include functional groups and heterocyclic groups R⁷⁴, R⁷⁵ and R⁷⁶ may further be substituted by a hydrocarbyl group; and

45) a group of sub-formula (f)



where p'' is 0 or 1 and R⁸³ and R⁸⁴ are independently selected from hydrogen, optionally substituted hydrocarbyl or optionally substituted heterocyclyl, or R⁸³ and R⁸⁴ together with the nitrogen atom to which they are attached form an optionally substituted heterocyclic ring and where optional substituents for hydrocarbyl or heterocyclic groups R⁸³ and R⁸⁴ include functional groups and heterocyclic groups R⁸³ or R⁸⁴ may further be substituted by a hydrocarbyl group; and

R⁸¹ is hydrogen, halo, C₁₋₄alkoxy, cyano, ~~or~~ trifluoromethyl, or phenyl, and

R¹, R², R³, R⁴ are independently selected from halogeno, cyano, nitro,

C₁₋₃alkylsulphanyl, -N(OH)R⁷- (wherein R⁷ is hydrogen, or C₁₋₃alkyl), or R⁹X¹- (wherein X¹ represents a direct bond, -O-, -CH₂-, -OC(O)-, -C(O)-, -S-, -SO-, -SO₂-, -NR¹⁰C(O)-, -C(O)NR¹¹-,

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$-\text{SO}_2\text{NR}^{12}-$, $-\text{NR}^{13}\text{SO}_2-$ or $-\text{NR}^{14}-$ (wherein R^{10} , R^{11} , R^{12} , R^{13} and R^{14} each independently represents hydrogen, C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl)), provided that at least one of R^1 , R^2 , R^3 and R^4 is a group R^9X^1- and R^9 is selected from one of the following groups: and R^9 is hydrogen, optionally substituted hydrocarbyl, optionally substituted heterocyclyl or optionally substituted alkoxy where the optional substituents comprise at least one functional group; provided that at least one of R^2 or R^3 is other than hydrogen; and

where a functional group is selected from nitro, cyano, halo, oxo, $-\text{CR}^{78}\text{R}^{79}$, $\text{C}(\text{O})_x\text{R}^{77}$, OR^{77} , $\text{S}(\text{O})_y\text{R}^{77}$, $\text{NR}^{78}\text{R}^{79}$, $\text{C}(\text{O})\text{NR}^{78}\text{R}^{79}$, $\text{OC}(\text{O})\text{NR}^{78}\text{R}^{79}$, $-\text{NOR}^{77}$, $-\text{NR}^{77}\text{C}(\text{O})_x\text{R}^{78}$, $-\text{NR}^{77}\text{CONR}^{78}\text{R}^{79}$, $-\text{N}=\text{CR}^{78}\text{R}^{79}$, $\text{S}(\text{O})_y\text{NR}^{78}\text{R}^{79}$ or $-\text{NR}^{77}\text{S}(\text{O})_y\text{R}^{78}$ where R^{77} , R^{78} and R^{79} are independently selected from hydrogen, optionally substituted hydrocarbyl, optionally substituted heterocyclyl or optionally substituted alkoxy, or R^{78} and R^{79} together form an optionally substituted ring which optionally contains further heteroatoms such as oxygen, nitrogen, S, $\text{S}(\text{O})$ or $\text{S}(\text{O})_2$, where x is an integer of 1 or 2, y is 0 or an integer of 1-3 and where hydrocarbyl, heterocyclyl or alkoxy groups R^{77} , R^{78} and R^{79} as well as rings formed by R^{78} and R^{79} are optionally substituted by halo, perhaloalkyl, mercapto, alkylthio, hydroxy, carboxy, alkoxy, heteroaryl, heteroaryloxy, cycloalkyl, cycloalkenyl, cycloalkynyl, alkenyloxy, alkynyloxy, alkoxyalkoxy, aryloxy (where the aryl group may be substituted by halo, nitro, or hydroxy), cyano, nitro, amino, mono or di-alkyl amino, oximine or $\text{S}(\text{O})_y\text{R}^{80}$ where y is 0 or an integer of 1-3 and R^{80} is a alkyl; and wherein hydrocarbyl is selected from alkyl, alkenyl, alkynyl, aryl, aralkyl, cycloalkyl, cycloalkenyl, or combinations thereof.

1) hydrogen or C_{1-5} alkyl which may be unsubstituted or which may be substituted with one or more groups selected from hydroxy, oxiranyl, fluoro, chloro, bromo and amino (including C_{1-3} alkyl and trifluoromethyl);

2) $-\text{R}^a\text{X}^2\text{C}(\text{O})\text{R}^{15}$ (wherein X^2 represents $-\text{O}-$ or $-\text{NR}^{16}-$ (in which R^{16} represents hydrogen, C_{1-3} alkyl or C_{1-3} alkoxy C_{2-3} alkyl) and R^{15} represents C_{1-3} alkyl, $-\text{NR}^{17}\text{R}^{18}$ or $-\text{OR}^{19}$ (wherein R^{17} , R^{18} and R^{19} which may be the same or different each represents hydrogen, C_{1-5} alkyl, hydroxy C_{1-5} alkyl or C_{1-3} alkoxy C_{2-3} alkyl));

3) $-\text{R}^b\text{X}^3\text{R}^{20}$ (wherein X^3 represents $-\text{O}-$, $\text{C}(\text{O})-\text{S}-$, $-\text{SO}-$, $-\text{SO}_2-$, $-\text{OC}(\text{O})-$, $-\text{NR}^{21}\text{C}(\text{O})_s-$, $-\text{C}(\text{O})\text{NR}^{22}-$, $-\text{SO}_2\text{NR}^{23}-$, $-\text{NR}^{24}\text{SO}_2-$ or $-\text{NR}^{25}-$ (wherein R^{21} , R^{22} , R^{23} , R^{24} and R^{25} each independently represents hydrogen, C_{1-3} alkyl, hydroxy C_{1-4} alkyl or C_{1-3} alkoxy C_{2-3} alkyl and s is 1 or 2) and R^{20} represents hydrogen, C_{1-6} alkyl, C_{2-6} alkenyl, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, phenyl or a 5-6-membered saturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which C_{1-6} alkyl group may bear 1, 2 or 3 substituents selected from oxo, hydroxy, halogeno, cyclopropyl, amino, C_{1-4} alkylamino,

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C₁₋₄alkanoyldi-C₁₋₄alkylamino, C₁₋₄alkylthio, C₁₋₄alkoxy and which cyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, cyano, C₁₋₄cyanoalkyl, C₁₋₄alkyl,

C₁₋₄hydroxyalkyl, C₁₋₄alkoxy, C₁₋₄alkoxyC₁₋₄alkyl, C₁₋₄alkylsulphonylC₁₋₄alkyl, C₁₋₄alkoxycarbonyl, C₁₋₄aminoalkyl, C₁₋₄alkylamino, di(C₁₋₄alkyl)amino, C₁₋₄alkylaminoC₁₋₄alkyl,

di(C₁₋₄alkyl)aminoC₁₋₄alkyl, C₁₋₄alkylaminoC₁₋₄alkoxy, di(C₁₋₄alkyl)aminoC₁₋₄alkoxy and a group -(O-)_f(R^b)_gD (wherein f is 0 or 1, g is 0 or 1 and D is a C₃₋₆cycloalkyl group or a 5-6-membered saturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which cyclic group may bear one or more substituents selected from C₁₋₄alkyl));

4) -R^cX⁴R^cX⁵R²⁶ (wherein X⁴ and X⁵ which may be the same or different are each -O-, C(O), -S-, -SO-, -SO₂-, -NR²⁷C(O)_s-, -C(O)_sNR²⁸-, -SO₂NR²⁹-, -NR³⁰SO₂- or -NR³¹- (wherein R²⁷, R²⁸, R²⁹, R³⁰ and R³¹ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl and s is 1 or 2) and R²⁶ represents hydrogen, C₁₋₃alkyl, hydroxyC₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl);

5) R³² (wherein R³² is a 4-6-membered cycloalkyl or saturated heterocyclic ring (linked via carbon or nitrogen) with 1-2 heteroatoms, selected independently from O, S and N, which cycloalkyl or heterocyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, cyano, C₁₋₄alkyl, hydroxyC₁₋₄alkyl, cyanoC₁₋₄alkyl, cyclopropyl,

C₁₋₄alkylsulphonylC₁₋₄alkyl, C₁₋₄alkoxycarbonyl, carboxamido, C₁₋₄aminoalkyl, C₁₋₄alkylamino, di(C₁₋₄alkyl)amino, C₁₋₄alkylaminoC₁₋₄alkyl, C₁₋₄alkanoyl, di(C₁₋₄alkyl)aminoC₁₋₄alkyl,

C₁₋₄alkylaminoC₁₋₄alkoxy, di(C₁₋₄alkyl)aminoC₁₋₄alkoxy nitro, amino, C₁₋₄alkoxy,

C₁₋₄hydroxyalkoxy, carboxy, trifluoromethyl, -C(O)NR³⁸R³⁹, -NR⁴⁰C(O)R⁴¹ (wherein R³⁸, R³⁹, R⁴⁰ and R⁴¹, which may be the same or different, each represents hydrogen, C₁₋₄alkyl, hydroxyC₁₋₄alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and a group -(O-)_f(C₁₋₄alkyl)_gringD (wherein f is 0 or 1, g is 0 or 1 and ring D is a cyclic group selected from C₃₋₆cycloalkyl, aryl or 5-6-membered saturated or unsaturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which cyclic group may bear one or more substituents selected from halo and C₁₋₄alkyl);

6) -R^dR³² (wherein R³² is as defined hereinbefore);

7) -R^eR³² (wherein R³² is as defined hereinbefore);

8) -R^fR³² (wherein R³² is as defined hereinbefore);

9) R³³ (wherein R³³ represents a pyridone group, a phenyl group or a 5-6-membered aromatic heterocyclic group (linked via carbon or nitrogen) with 1-3 heteroatoms selected from O, N and S, which pyridone, phenyl or aromatic heterocyclic group may carry up to 5 substituents selected from hydroxy, nitro, halogeno, amino, C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₄hydroxyalkyl, C₁₋₄aminoalkyl, C₁₋₄alkylamino, C₁₋₄hydroxyalkoxy, oxo, cyanoC₁₋₄alkyl, cyclopropyl, C₁₋₄alkylsulphonylC₁₋₄alkyl,

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C₁₋₄alkoxycarbonyl, di(C₁₋₄alkyl)amino, C₁₋₄alkylaminoC₁₋₄alkyl, C₁₋₄alkanoyl, di(C₁₋₄alkyl)aminoC₁₋₄alkyl, C₁₋₄alkylaminoC₁₋₄alkoxy, di(C₁₋₄alkyl)aminoC₁₋₄alkoxy, carboxy, carboxamido, trifluoromethyl, cyano, -C(O)NR³⁸R³⁹, -NR⁴⁰C(O)R⁴¹ (wherein R³⁸, R³⁹, R⁴⁰ and R⁴¹, which may be the same or different, each represents hydrogen, C₁₋₄alkyl, hydroxyC₁₋₄alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and a group -(O)_f(C₁₋₄alkyl)_gringD (wherein f is 0 or 1, g is 0 or 1 and ring D is a cyclic group selected from C₃₋₆cycloalkyl, aryl or 5-6-membered saturated or unsaturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which cyclic group may bear one or more substituents selected from halo and C₁₋₄alkyl);

10) -R^gR³³ (wherein R³³ is as defined hereinbefore);

11) -R^hR³³ (wherein R³³ is as defined hereinbefore);

12) -RⁱR³³ (wherein R³³ is as defined hereinbefore);

13) -R^jX⁶R³³ (wherein X⁶ represents -O-, -C(O)-, -S-, -SO-, -SO₂-, -OC(O)-, -NR³⁸C(O)-, -C(O)NR³⁹-, -SO₂NR⁴⁰-, -NR⁴¹SO₂- or -NR⁴²- (wherein R³⁸, R³⁹, R⁴⁰, R⁴¹ and R⁴² each independently represents hydrogen, C₁₋₃alkyl, hydroxyC₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R³³ is as defined hereinbefore);

-R^kX⁷R³³ (wherein X⁷ represents -O-, C(O)-, -S-, -SO-, -SO₂-, -NR⁴³C(O)-, -C(O)NR⁴⁴-, -SO₂NR⁴⁵-, -NR⁴⁶SO₂- or -NR⁴⁷- (wherein R⁴³, R⁴⁴, R⁴⁵, R⁴⁶ and R⁴⁷ each independently represents hydrogen, C₁₋₃alkyl, hydroxyC₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R³³ is as defined hereinbefore);

-R^mX⁸R³³ (wherein X⁸ represents -O-, -C(O)-, -S-, -SO-, -SO₂-, -NR⁴⁸C(O)-, -C(O)NR⁴⁹-, -SO₂NR⁵⁰-, -NR⁵¹SO₂- or -NR⁵²- (wherein R⁴⁸, R⁴⁹, R⁵⁰, R⁵¹ and R⁵² each independently represents hydrogen, C₁₋₃alkyl, hydroxyC₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R³³ is as defined hereinbefore);

16) -RⁿX⁹R^{n'}R³³ (wherein X⁹ represents -O-, -C(O)-, -S-, -SO-, -SO₂-, -NR⁵³C(O)-, -C(O)NR⁵⁴-, -SO₂NR⁵⁵-, -NR⁵⁶SO₂- or -NR⁵⁷- (wherein R⁵³, R⁵⁴, R⁵⁵, R⁵⁶ and R⁵⁷ each independently represents hydrogen, C₁₋₃alkyl, hydroxyC₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R³³ is as defined hereinbefore);

17) -R^pX⁹-R^pR³² (wherein X⁹ and R³² are as defined hereinbefore);

18) C₂₋₅alkenyl which may be unsubstituted or which may be substituted with one or more groups selected from hydroxy, fluoro, amino, C₁₋₄alkylamino, N,N-di(C₁₋₄alkyl)amino, aminosulphonyl, N-C₁₋₄alkylaminosulphonyl and N,N-di(C₁₋₄alkyl)aminosulphonyl;

19) C₂₋₅alkynyl which may be unsubstituted or which may be substituted with one or more groups selected from hydroxy, fluoro, amino, C₁₋₄alkylamino,

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N,N-di(C₁₋₄alkyl)amino, aminosulphonyl, N-C₁₋₄alkylaminosulphonyl and

N,N-di(C₁₋₄alkyl)aminosulphonyl;

20) -R^tX⁹R^rR³² (wherein X⁹ and R³² are as defined hereinbefore);

21) -R^uX⁹R^uR³² (wherein X⁹ and R³² are as defined hereinbefore); and

22) -R^vR⁵⁸(R^v)_g(X⁹)_rR⁵⁹(wherein X⁹ is as defined hereinbefore, q is 0 or 1, r is 0 or 1, and R⁵⁸ is a C₁₋₃alkylene group or a cyclic group selected from cyclopropyl, cyclobutyl, cyclopentylene, cyclohexylene or a 5-6-membered saturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which C₁₋₃alkylene group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno and C₁₋₄alkoxy and which cyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, cyano,

C₁₋₄cyanoalkyl, C₁₋₄alkyl, C₁₋₄hydroxyalkyl, C₁₋₄alkoxy, C₁₋₄alkoxyC₁₋₄alkyl,

C₁₋₄alkylsulphonylC₁₋₄alkyl, C₁₋₄alkoxycarbonyl, C₁₋₄aminoalkyl, C₁₋₄alkylamino,

di(C₁₋₄alkyl)amino, C₁₋₄alkylaminoC₁₋₄alkyl, di(C₁₋₄alkyl)aminoC₁₋₄alkyl, C₁₋₄alkylaminoC₁₋₄alkoxy,

di(C₁₋₄alkyl)aminoC₁₋₄alkoxy and a group -(-O-)_f(C₁₋₄alkyl)_gringD (wherein f is 0 or 1, g is 0 or 1

and ring D is a cyclic group selected from C₃₋₆cycloalkyl, aryl or 5-6-membered saturated or unsaturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N,

which cyclic group may bear one or more substituents selected from halo and C₁₋₄alkyl); and R⁵⁹

is hydrogen, C₁₋₃alkyl, or a cyclic group selected from cyclopropyl, cyclobutyl, cyclopentyl,

cyclohexyl and a 5-6-membered saturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which C₁₋₃alkyl group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, C₁₋₄alkoxy and which cyclic group may bear 1 or 2 substituents

selected from oxo, hydroxy, halogeno, cyano, C₁₋₄cyanoalkyl, C₁₋₄alkyl, C₁₋₄hydroxyalkyl,

C₁₋₄alkoxy, C₁₋₄alkoxyC₁₋₄alkyl, C₁₋₄alkylsulphonylC₁₋₄alkyl, C₁₋₄alkoxycarbonyl, C₁₋₄aminoalkyl,

C₁₋₄alkylamino, di(C₁₋₄alkyl)amino, C₁₋₄alkylaminoC₁₋₄alkyl, di(C₁₋₄alkyl)aminoC₁₋₄alkyl,

C₁₋₄alkylaminoC₁₋₄alkoxy, di(C₁₋₄alkyl)aminoC₁₋₄alkoxy and a group -(-O-)_f(C₁₋₄alkyl)_gringD

(wherein f is 0 or 1, g is 0 or 1 and D is a cyclic group selected from C₃₋₆cycloalkyl, aryl or 5-6-membered saturated or unsaturated heterocyclic group with 1-2 heteroatoms, selected

independently from O, S and N, which cyclic group may bear one or more substituents selected from halo and C₁₋₄alkyl);

and wherein R^a, R^b, R^{b'}, R^c, R^{c'}, R^d, R^g, R^j, Rⁿ, R^{n'}, R^p, R^{p'}, R^r, R^u, R^v and R^{v'} are independently selected from C₁₋₆alkylene groups optionally substituted by one or more substituents selected from hydroxy, halogeno, amino,

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R^e, R^h, R^k and R^t are independently selected from C₂₋₈alkenylene groups optionally substituted by one or more substituents selected from hydroxy, halogeno, amino, and R^t may additionally be a bond; and

R^f, Rⁱ, R^m and R^u are independently selected from by C₂₋₈alkynylene groups optionally substituted by one or more substituents selected from hydroxy, halogeno, amino; and

where a functional group is selected from nitro, cyano, halo, oxo, =CR⁷⁸R⁷⁹, C(O)_xR⁷⁷, OR⁷⁷, S(O)_yR⁷⁷, NR⁷⁸R⁷⁹, C(O)NR⁷⁸R⁷⁹, OC(O)NR⁷⁸R⁷⁹, =NOR⁷⁷, -NR⁷⁷C(O)_xR⁷⁸, -NR⁷⁷CONR⁷⁸R⁷⁹, -N=CR⁷⁸R⁷⁹, S(O)_yNR⁷⁸R⁷⁹ or -NR⁷⁷S(O)_yR⁷⁸ where R⁷⁷, R⁷⁸ and R⁷⁹ are independently selected from hydrogen, optionally substituted hydrocarbyl, optionally substituted heterocyclyl or optionally substituted alkoxy, or R⁷⁸ and R⁷⁹ together form an optionally substituted ring which optionally contains further heteroatoms such as oxygen, nitrogen, S, S(O) or S(O)₂, where x is an integer of 1 or 2, y is 0 or an integer of 1-3 and where hydrocarbyl, heterocyclyl or alkoxy groups R⁷⁷, R⁷⁸ and R⁷⁹ as well as rings formed by R⁷⁸ and R⁷⁹ are optionally substituted by halo, perhaloalkyl, mercapto, alkylthio, hydroxy, carboxy, alkoxy, heteroaryl, heteroaryloxy, cycloalkyl, cycloalkenyl, cycloalkynyl, alkenyloxy, alkynyloxy, alkoxyalkoxy, aryloxy (where the aryl group may be substituted by halo, nitro, or hydroxy), cyano, nitro, amino, mono- or di-alkyl amino, oximino or S(O)_yR⁹⁰ where y is 0 or an integer of 1-3 and R⁹⁰ is a alkyl; and
wherein hydrocarbyl is selected from alkyl, alkenyl, alkynyl, aryl, aralkyl, cycloalkyl, cycloalkenyl, or combinations thereof.

2-5. (Canceled)

6. (Currently Amended) A compound according to claim 15 wherein R¹, R², R³, R⁴ are independently selected from, halo, cyano, nitro, trifluoromethyl, C₁₋₃alkyl, -NR⁷R⁸ (wherein R⁷ and R⁸, which may be the same or different, each represents hydrogen or C₁₋₃alkyl), or other groups from formula -X¹R⁹ (wherein X¹ represents a direct bond, -O-, -CH₂-, -OCO-, carbonyl, -S-, -SO-, -SO₂-, -NR¹⁰CO-, -CONR¹¹-, -SO₂NR¹²-, -NR¹³SO₂- or -NR¹⁴- (wherein R¹⁰, R¹¹, R¹², R¹³ and R¹⁴ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl), and R⁹ is selected from one of the following groups:

1') hydrogen or C₁₋₅alkyl which may be unsubstituted or which may be substituted with one or more groups selected from hydroxy, fluoro or amino,

2') C₁₋₅alkylX²C(O)R¹⁵ (wherein X² represents -O- or -NR¹⁶- (in which R¹⁵ represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R⁵ represents C₁₋₃alkyl, -NR¹⁷R¹⁸ or -OR¹⁹ (wherein R¹⁷, R¹⁸

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and R¹⁹ which may be the same or different each represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl));

3') C₁₋₅alkylX³R²⁰ (wherein X³ represents -O-, -S-, -SO-, -SO₂-, -OCO-, -NR²¹CO-, -CONR²²-, -SO₂NR²³-, -NR²⁴SO₂- or -NR²⁵- (wherein R²¹, R²², R²³, R²⁴ and R²⁵ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R²⁰ represents hydrogen, C₁₋₃alkyl, cyclopentyl, cyclohexyl or a 5-6-membered saturated heterocyclic group with 1-2 heteroatoms, selected independently from O, S and N, which C₁₋₃alkyl group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno and C₁₋₄alkoxy and which cyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, C₁₋₄alkyl, C₁₋₄hydroxyalkyl and C₁₋₄alkoxy);

4') C₁₋₅alkylX⁴C₁₋₅alkylX⁵R²⁶ (wherein X⁴ and X⁵ which may be the same or different are each -O-, -S-, -SO-, -SO₂-, -NR²⁷CO-, -CONR²⁸-, -SO₂NR²⁹-, -NR³⁰SO₂- or -NR³¹- (wherein R²⁷, R²⁸, R²⁹, R³⁰ and R³¹ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R²⁶ represents hydrogen or C₁₋₃alkyl);

5') R³² (wherein R³² is a 5-6-membered saturated heterocyclic group (linked via carbon or nitrogen) with 1-2 heteroatoms, selected independently from O, S and N, which heterocyclic group may bear 1 or 2 substituents selected from oxo, hydroxy, halogeno, C₁₋₄alkyl, C₁₋₄hydroxyalkyl, C₁₋₄alkoxy, C₁₋₄alkoxyC₁₋₄alkyl and C₁₋₄alkylsulphonylC₁₋₄alkyl);

6') C₁₋₅alkylR³² (wherein R³² is as defined in (5') above);

7') C₂₋₅alkenylR³² (wherein R³² is as defined in (5') above);

8') C₂₋₅alkynylR³² (wherein R³² is as defined in (5') above);

9') R³³ (wherein R³³ represents a pyridone group, a phenyl group or a 5-6-membered aromatic heterocyclic group (linked via carbon or nitrogen) with 1-3 heteroatoms selected from O, N and S, which pyridone, phenyl or aromatic heterocyclic group may carry up to 5 substituents on an available carbon atom selected from hydroxy, halogeno, amino, C₁₋₄alkyl, C₁₋₄alkoxy, C₁₋₄hydroxyalkyl, C₁₋₄aminoalkyl, C₁₋₄alkylamino, C₁₋₄hydroxyalkoxy, carboxy, trifluoromethyl, cyano, -CONR³⁴R³⁵ and -NR³⁶COR³⁷ (wherein R³⁴, R³⁵, R³⁶ and R³⁷, which may be the same or different, each represents hydrogen, C₁₋₄alkyl or C₁₋₃alkoxyC₂₋₃alkyl));

10') C₁₋₅alkylR³³ (wherein R³³ is as defined in (9') above);

11') C₂₋₅alkenylR³³ (wherein R³³ is as defined in (9') above);

12') C₂₋₅alkynylR³³ (wherein R³³ is as defined in (9') above);

13') C₁₋₅alkylX⁶R³³ (wherein X⁶ represents -O-, -S-, -SO-, -SO₂-, -NR³⁸CO-, -CONR³⁹-, -SO₂NR⁴⁰-, -NR⁴¹SO₂- or -NR⁴²- (wherein R³⁸, R³⁹, R⁴⁰, R⁴¹ and R⁴² each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R³³ is as defined hereinbefore);

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14') C₂₋₅alkenylX⁷R³³ (wherein X⁷ represents -O-, -S-, -SO-, -SO₂-, -NR⁴³CO-, -CONR⁴⁴-, -SO₂NR⁴⁵-, -NR⁴⁶SO₂- or -NR⁴⁷- (wherein R⁴³, R⁴⁴, R⁴⁵, R⁴⁶ and R⁴⁷ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R³³ is as defined hereinbefore);
15') C₂₋₅alkynylX⁸R³³ (wherein X⁸ represents -O-, -S-, -SO-, -SO₂-, -NR⁴⁸CO-, -C(O)NR⁴⁹-, -SO₂NR⁵⁰-, -NR⁵¹SO₂- or -NR⁵²- (wherein R⁴⁸, R⁴⁹, R⁵⁰, R⁵¹ and R⁵² each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R³³ is as defined hereinbefore);
16') C₁₋₃alkylX⁹C₁₋₃alkylR³³ (wherein X⁹ represents -O-, -S-, -SO-, -SO₂-, -NR⁵³CO-, -C(O)NR⁵⁴-, -SO₂NR⁵⁵-, -NR⁵⁶SO₂- or -NR⁵⁷- (wherein R⁵³, R⁵⁴, R⁵⁵, R⁵⁶ and R⁵⁷ each independently represents hydrogen, C₁₋₃alkyl or C₁₋₃alkoxyC₂₋₃alkyl) and R³³ is as defined hereinbefore); and
17') C₁₋₃alkylX⁹C₁₋₃alkylR³² (wherein X⁹ and R³² are as defined in (5') above), provided that at least one of R² or R³ is other than hydrogen.

7. (Currently Amended) A compound according to ~~any one of claims claim~~ claim 1, 4, 5 or 6, where R¹ is hydrogen and R⁴ is hydrogen, halo, C₁₋₄ alkyl or C₁₋₄alkoxy.

8-9. (Canceled)

10. (Currently Amended) A compound according to ~~any one of claims claim~~ 1[[.]] or claim 74, 5 or 6 wherein R³ is a group X¹R⁹ where X¹ is oxygen and R⁹ includes a methylene group directly adjacent to X¹.

11. (Currently Amended) A compound according to claim 15 wherein at least one of R¹, R², R³ or R⁴ is a group X¹R⁹ which includes a bridging alkylene, alkenylene or alkynylene group selected from groups R^a, R^b, R^{b'}, R^c, R^{c'}, R^d, R^g, Rⁱ, Rⁿ, R^{n'}, R^p, R^{p'}, R^t, R^{u'}, R^v, R^{v'}, R^e, R^h, R^k, R^t, R^f, Rⁱ, R^m and R^u and least one such group includes a hydroxy substituent.

12. (Currently Amended) A compound according to claim 15 wherein R⁹ is selected from a group (1), (3), (6) or (10).

13. (Currently Amended) A compound according to ~~any one of claims claim~~ 12 1, 4, 5 or 6 wherein X is NH or O.

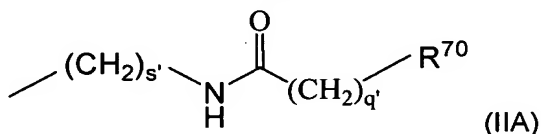
14-17. (Canceled)

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18. (Previously Presented) A compound according to claim 13 wherein R⁵ is a group of formula (iii).

19-20. (Canceled)

21. (Currently Amended) A compound according to claim 1 wherein ~~R⁸⁰ is R⁶ is substituted~~ by a group of sub formula (II) which is a ~~group compound~~ of formula (IIA)



where s', q' and R⁷⁰ are as defined in claim 1.

22. (Previously Presented) A compound according to claim 1 or claim 21 wherein R⁸⁰ includes a group R⁷⁰ and said group is phenyl optionally substituted by halo.

23. (Currently Amended) A compound according to claim 1 where ~~R⁸⁰ is R⁶ is substituted by~~ a group of formula (d) ~~or (e)~~ and R¹⁰⁰ is a group selected from optionally substituted phenyl or optionally substituted pyridyl.

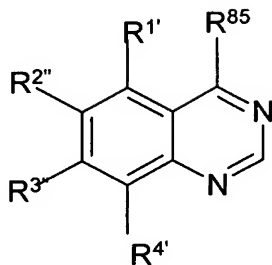
24. (Currently Amended) A compound according to claim 1 ~~or claim 34 or claim 23~~ wherein R⁸⁰ is a group of sub-formula (d).

25. (Currently Amended) A compound according to ~~any one of claims claim 1, 4, 5 or 6,~~ which is a phosphate prodrug of a compound of formula (I) wherein the phosphate is a derivative of a hydroxy group and is present at R² or R³.

26. (Currently Amended) A method for preparing a compound of formula (I) as defined in claim 1, which method comprises reacting a compound of formula (VII)

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(VII)

where R^{1'}, R^{2''}, R^{3'}, and R^{4'} are equivalent to a group R¹, R², R³ and R⁴ as defined in relation to formula (I) ~~or a precursor thereof~~, and R⁸⁵ is a leaving group, with a compound of formula (VIII)



where X and R⁵ are as defined in relation to formula (I) ~~and thereafter if desired or necessary converting a group R^{1'}, R^{2''}, R^{3'} or R^{4'} to a group R¹, R², R³ and R⁴ respectively.~~

27. (Currently Amended) A method for treating hyperproliferative disease ~~inhibiting aurora-2 kinase~~ in a warm blooded animal, such as man, in need of such treatment, which comprises administering to said animal an effective amount of a compound according to claim 1, or salt, ~~ester-amide~~ or prodrug thereof.

28. (Canceled)

29. (Currently Amended) A pharmaceutical composition comprising a compound according to any one of claims 1, 7, 12, 18 or 34 ~~4, 5 or 6~~ or salt, ~~ester-amide~~ or prodrug thereof, in combination with a pharmaceutically acceptable carrier.

30. (Canceled)

31. (New) A compound according to claim 1 wherein both R¹ and R⁴ are hydrogen.

32. (New) A compound according to claim 12 wherein one of R² or R³ is 3-morpholinopropoxy.

33. (New) A compound according to claim 1 or claim 13 wherein R⁵ is a group of formula (i), (ii) or (iii).

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34. (New) A compound according to claim 13 wherein R^5 is a group of formula (i).
35. (New) A compound according to claim 24 wherein one of X^{10} or X^{11} is other than a bond.
36. (New) A method for treating cancer in a warm blooded animal, such as man, in need of such treatment, which comprises administering to said animal an effective amount of a compound according to claim 1, or salt or prodrug thereof.
37. (New) A method for treating colorectal or breast cancer in a warm blooded animal, such as man, in need of such treatment, which comprises administering to said animal an effective amount of a compound according to claim 1, or salt or prodrug thereof.